|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| e | 0.0 |  |  |  |  |
| v | 0.0 |  |  |  |  |
| n | 0.0 |  |  |  |  |
| a | 0.0 | ?? |  |  |  |
| s | 1.0 |  |  |  |  |
|  | start | dog | flies  | fly | end |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| e |  |  |  |  |  |
| v |  |  |  |  |  |
| n |  |  |  |  |  |
| a |  | ??? |  |  |  |
| s |  \* |  |  |  |  |
|  | start | dog | flies | fly | end |

\* Marks the best path state at time T (\* cell contains the best path state at T-1)

 Transition probs (aij) Observation probs (bio)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | a | n | v | e |  | dog | fly | flies |
| v | .3 | .3 | .2 | .2 |  | .25 | .25 | .5 |
| n | .1 | .4 | .3 | .2 |  | .3 | .5 | .2 |
| a | .1 | .6 | .1 | .2 |  | .7 | .15 | .15 |
| s | .1 | .8 | .1 |  |  |  |  |  |

V(a,1) = max(pp(s,a,1), pp(a,a,1), pp(n,a,1), pp(v,a,1))

 = pp(s, a, 1)

 = v(s, 0) \* p(a | s) \* p(dog | a)

 = ??